

WHAT IS CLAIMED IS:

1               1. A medical robotic system, comprising: a robotic arm; a coupler that  
2 pivotally attaches to the arm; an endoscopic surgical instrument that is held by said coupler; a  
3 controller having a handle, the controller in electrical communication with the robotic arm  
4 wherein movement at the handle produces a proportional movement of the surgical  
5 instrument; and means for adjusting the proportionality of movement between the handle and  
6 the instrument.

1               2. The system of Claim 1 wherein said coupler removably attaches to said  
2 robotic arm.

1               3. The system of Claim 1 wherein said endoscopic surgical instrument is  
2 an articulable endoscopic surgical instrument.

1               4. The system of Claim 1 wherein the articulable surgical instrument  
2 comprises a base, a pivot linkage, and a distal end.

1               5. The system of Claim 4 wherein a movement at the controller results in  
2 corresponding movement of the distal end of the articulable surgical instrument relative to the  
3 base of the articulable surgical instrument.

1               6. The system of claim 1 wherein the coupler has an aperture formed  
2 therethrough.

1               7. A medical robotic system, comprising: a robotic arm; a coupler that  
2 pivotally attaches to the arm; an endoscopic surgical instrument that is held by said coupler; a  
3 controller having a removably attachable handle, the controller in electrical communication  
4 with the robotic arm wherein movement at the handle produces a proportional movement of  
5 the surgical instrument.

1               8. The system of claim 7 further comprising a plurality of removably  
2 attachable handles, wherein a surgeon may interchange said handles.

1               9. The system of Claim 7 further comprising a handle stand, wherein said  
2 attachable handle is removably attached to said handle stand.

1                   10.     The system of Claim 7 wherein said handle stand comprises means for  
2     tilting said stand.

1                   11.     The system of Claim 7 wherein said handle stand comprises means for  
2     raising and lowering said stand.

1                   12.     The system of Claim 7 wherein said handle stand comprises means for  
2     adjusting distance between the handles portions of said handle stand.

1                   13.     The system of Claim 1 further comprising an audio feedback device  
2     for providing audio messages.

1                   14.     A medical robotic system, comprising:  
2                         at least two robotic arms;  
3                         a controller having at least one handle, the controller in electrical  
4     communication with the robotic arms wherein movement at a handle produces a proportional  
5     at a corresponding arm; and  
6                         means for switching connections between a handle of the controller  
7     and a specific one of the robotic arms such that a single handle may control a plurality of  
8     robotic arms.

1                   15.     The system of Claim 14 wherein the means for switching comprises a  
2     voice recognizer.

1                   16.     The system of claim 14 wherein the means for switching comprises a  
2     switching device.

1                   17.     A medical robotic system, comprising:  
2                         a robotic arm;  
3                         a coupler that pivotally attaches to the arm;  
4                         an endoscopic surgical instrument that is held by said coupler;  
5                         a controller having a handle, the controller in electrical communication  
6     with the robotic arm wherein movement at the handle produces a proportional movement of  
7     the surgical instrument; and  
8                         a stabilizer attached to the surgical instrument.

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18. The system of claim 17 wherein said stabilizer is comprised of plastic.